

# JOURNAL OF Neurobiology

## Volume Contents

*Vol. 62, No. 1, January 2005*

**Membrane Electrical Excitability Is Necessary for the Free-Running Larval  
*Drosophila* Circadian Clock / 1**

*Michael N. Nitabach, Vasu Sheeba, David A. Vera, Justin Blau, and Todd C. Holmes*  
Published online 6 August 2004

**Nitric Oxide Synthase and Soluble Guanylyl Cyclase Underlying the Modulation  
of Electrical Oscillations in a Central Olfactory Organ / 14**

*Sayoko Fujie, Takehiro Yamamoto, Jun Murakami, Dai Hatakeyama, Hatsuki Shiga,  
Norio Suzuki, and Etsuro Ito*  
Published online 12 August 2004

**Dominance-Related Changes in Spatial Memory Are Associated with Changes in  
Hippocampal Cell Proliferation Rates in Mountain Chickadees / 31**

*Vladimir V. Pravosudov and Alicja Omanska*  
Published online 8 September 2004

**Early Social Environment Interferes with the Development of NADPH-  
Diaphorase-Reactive Neurons in the Rodent Orbital Prefrontal Cortex / 42**

*G. Poeggel, L. Nowicki, and K. Braun*  
Published online 8 September 2004

**Constant Amplitude of Postsynaptic Responses for Single Presynaptic Action  
Potentials But Not Bursting Input during Growth of an Identified Neuromuscular  
Junction in the Lobster, *Homarus americanus* / 47**

*Stefan R. Pulver, Dirk Bucher, David J. Simon, and Eve Marder*  
Published online 8 September 2004

**Maturation of Escape Circuit Function during the Early Adulthood of  
Cockroaches *Periplaneta americana* / 62**

*Frederic Libersat, Vicky Leung, Adi Mizrahi, Nick Mathenia, and Christopher Comer*  
Published online 8 September 2004

**Complementary Neural Systems for the Experience-Dependent Integration of  
Mate-Choice Cues in European Starlings / 72**

*Keith W. Sockman, Timothy Q. Gentner, and Gregory F. Ball*  
Published online 8 September 2004

**Prolonged Moderate Elevation of Corticosterone Does Not Affect Hippocampal Anatomy or Cell Proliferation Rates in Mountain Chickadees (*Parus gambeli*) / 82**

Vladimir V. Pravosudov and Alicja Omanska

Published online 8 September 2004

**Developmentally Regulated Expression of c-Fos and c-Jun in the Brainstem Auditory Nuclei of *Gallus domesticus* Is Modified by Prenatal Auditory Enrichment / 92**

Phalguni Anand Alladi, Tarashankar Roy, Neeta Singh, and Shashi Wadhwa

Published online 8 September 2004

**Ca<sup>2+</sup> Influx into Identified Leech Neurons Induced by 5-Hydroxytryptamine / 106**

Paul Wilhelm Dierkes and Wolf-Rüdiger Schlue

Published online 27 September 2004

**Distinct Temporal Genetic Signatures of Neurogenic and Gliogenic Cues in Cortical Stem Cell Cultures / 121**

Claire Sauvageot, Patricia L. Dahia, Ovidiu Lipan, John K. Park, Mi-Sook Chang, John A. Alberta, and Charles D. Stiles

Published online 8 September 2004

**Growth Cones Turn and Migrate up an Immobilized Gradient of the Laminin IKVAV Peptide / 134**

Derek N. Adams, Edmund Y.-C. Kao, Claire L. Hypolite, Mark D. Distefano, Wei-Shou Hu, and Paul C. Letourneau

Published online 27 September 2004

**Vol. 62, No. 2, February 5, 2005**

**Opiate Modulation of Monoamines in the Chick Forebrain: Possible Role in Emotional Regulation? / 149**

K. Baldauf, K. Braun, and M. Gruss

Published online 27 September 2004

**Segment-Specific Muscle Degeneration Is Triggered Directly by a Steroid Hormone during Insect Metamorphosis / 164**

Dennis J. Hazelett and Janis C. Weeks

Published online 27 September 2004

**Expression of a Dominant Negative Form of Daxx *In Vivo* Rescues Motoneurons from Fas (CD95)-Induced Cell Death / 178**

Cedric Raoul, Catherine Barthelemy, Arnaud Couzinet, David Hancock, Brigitte Pettmann, and Anne-Odile Hueber

Published online 30 September 2004

**Dose and Age-Dependent Axonal Responses of Embryonic Trigeminal Neurons to Localized NGF via p75<sup>NTR</sup> Receptor / 189**

P. Hande Özdinler, Emel Ulupinar, and Reha S. Erzurumlu

Published online 30 September 2004

**Increased Microglial Activation and Astrogliosis after Intranasal Administration of Kainic Acid in C57BL/6 Mice / 207**

*Zhiguo Chen, Rui-Sheng Duan, Hernan Concha Quezada, Eilhard Mix, Inger Nennesmo, Abdu Adem, Bengt Winblad, and Jie Zhu*

Published online 30 September 2004

**Responses of Temporal Retinal Growth Cones to EphrinA5-Coated Beads / 219**

*Christine Weinl, Nadine Becker, and Juergen Loeschinger*

Published online 30 September 2004

**Neural Song Preference during Vocal Learning in the Zebra Finch Depends on Age and State / 231**

*Teresa A. Nick and Masakazu Konishi*

Published online 30 September 2004

**Differential Properties of Dentate Gyrus and CA1 Neural Precursors / 243**

*H. Becq, I. Jorquera, Y. Ben-Ari, S. Weiss, and A. Represa*

Published online 30 September 2004

**Fate of Constitutive Endocytic Vesicles Formed in the Growth Cone: Transport of Vesicles from One Growth Cone to Another in the Same Neuron / 262**

*Jeffrey L. Denburg, Ronald W. Huguen, Diane Tucker, and Stanley B. Kater*

Published online 15 October 2004

**BDNF Regulates Primary Dendrite Formation in Cortical Neurons via the PI3-Kinase and MAP Kinase Signaling Pathways / 278**

*Paul A. Dijkhuizen and Anirvan Ghosh*

Published online 27 October 2004

**Vol. 62, No. 3, February 15, 2005**

**Expression and Function of Two Nicotinic Subunits in Insect Neurons / 289**

*A. Vermehren and B.A. Trimmer*

Published online 27 October 2004

**Sex and Species Differences in Neuromodulatory Input to a Premotor Nucleus: A Comparative Study of Substance P and Communication Behavior in Weakly Electric Fish / 299**

*Johanna A. Kolodziejwski, Brian S. Nelson, and G. Troy Smith*

Published online 27 October 2004

**Expression of Muscarinic Acetylcholine Receptors and Choline Acetyltransferase Enzyme in Cultured Antennal Sensory Neurons and Non-Neural Cells of the Developing Moth *Manduca sexta* / 316**

*Päivi H. Torkkeli, Alexandre Widmer, and Shannon Meisner*

Published online 27 October 2004

**Systematic Screening and Identification of Antigens Recognized by Monoclonal Antibodies Raised against the Developing Lateral Olfactory Tract / 330**

*Takahiko Kawasaki, Yoshiko Takagi, Hitoshi Yamatani, and Tatsumi Hirata*

Published online 27 October 2004

**Neuroendocrine Mechanism for Tolerance to Cerebral Ischemia-Reperfusion Injury in Male Rats / 341**

*Shao-Hua Yang, Ran Liu, Yi Wen, Evelyn Perez, Jason Cutright, Anne-Marie Brun-Zinkernagel, Meharvan Singh, Arthur L. Day, and James W. Simpkins*

Published online 27 October 2004

**Differential Expression of T-Type Calcium Channels in P/Q-Type Calcium Channel Mutant Mice with Ataxia and Absence Epilepsy / 352**

*Sang-Soep Nahm, Ki-Yoon Jung, Melanie Krause Enger, William H. Griffith, and Louise C. Abbott*

Published online 27 October 2004

**A Two-Phase Growth Strategy in Cultured Neuronal Networks as Reflected by the Distribution of Neurite Branching Angles / 361**

*Orit Shefi, Sharon Golebowicz, Eshel Ben-Jacob, and Amir Ayali*

Published online 27 October 2004

**Ancient Gill and Lung Oscillators May Generate the Respiratory Rhythm of Frogs and Rats / 369**

*Konstantinon Vasilakos, Richard J.A. Wilson, Naofumi Kimura, and John E. Remmers*

Published online 18 November 2004

**Centrophobism/Thigmotaxis, a New Role for the Mushroom Bodies in *Drosophila* / 386**

*Morgane Besson and Jean-René Martin*

Published online 16 November 2004

**Vol. 62, No. 4, March 2005**

**CNS Midline Cells Contribute to Maintenance of the Initial Dorsoventral Patterning of the *Drosophila* Ventral Neuroectoderm / 397**

*In OK Kim, In Chul Kim, Sunmi Kim, Yeon Kyung Kwon, Pyung-Lim Han, Sang-Hak Jeon, and Sang Hee Kim*

Published online 16 November 2004

**Acute Injections of Brain-Derived Neurotrophic Factor in a Vocal Premotor Nucleus Reversibly Disrupt Adult Birdsong Stability and Trigger Syllable Deletion / 406**

*J. Matthew Kittelberger and Richard Mooney*

Published online 16 November 2004

**Expression of PKC in the Developing Zebrafish, *Danio rerio* / 425**

*Carrie Anne Blakey Slatter, Hanif Kanji, Chris Alexander Coutts, and Declan William Ali*

Published online 16 November 2004

**Aminoglycosides Block the Kv3.1 Potassium Channel and Reduce the Ability of Inferior Colliculus Neurons to Fire at High Frequencies / 439**

*Si-qiong J. Liu and Leonard K. Kaczmarek*

Published online 16 November 2004

**Age-Related Loss of Neuronal Nicotinic Receptor Expression in the Aging Mouse Hippocampus Corresponds with Cyclooxygenase-2 and PPAR $\gamma$  Expression and Is Altered by Long-Term NS398 Administration / 453**

*Lorise C. Gahring, Karina Persiyanov, Emily L. Days, and Scott W. Rogers*

Published online 18 November 2004

**Neural Auditory Selectivity Develops in Parallel with Song / 469**

*Teresa A. Nick and Masakazu Konishi*

Published online 22 December 2004

**Author Index to Volume 62 / 485**

**Subject Index to Volume 62 / 489**

**Volume Contents / I**